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---

1 **A low-power CMOS implementation of programmable CNN's with embedded photosensors**
Anguita, M.; Pelayo, F.J.; Fernandez, F.J.; Prieto, A.;
Circuits and Systems I: Fundamental Theory and Applications, IEEE Transactions on [see also Circuits and Systems I: Regular Papers, IEEE Transactions on] , Volume: 44 , Issue: 2 , Feb. 1997
Pages:149 - 153

[Abstract] [PDF Full-Text (176 KB)] **IEEE JNL**

---

2 **Analog CMOS implementation of a discrete time CNN with programmable cloning templates**
Anguita, M.; Pelayo, F.J.; Prieto, A.; Ortega, J.;
Circuits and Systems II: Analog and Digital Signal Processing, IEEE Transactions on [see also Circuits and Systems II: Express Briefs, IEEE Transactions on] , Volume: 40 , Issue: 3 , March 1993
Pages:215 - 218

[Abstract] [PDF Full-Text (332 KB)] **IEEE JNL**

---

3 **A CNN-driven locally adaptive CMOS image sensor**
Carmona, R.; Dominguez-Matas, C.M.; Cuadri, J.; Jimenez-Garrido, F.; Rodriguez-Vazquez, A.;
Circuits and Systems, 2004. ISCAS '04. Proceedings of the 2004 International Symposium on , Volume: 5 , 23-26 May 2004
Pages:457 - 460

[Abstract] [PDF Full-Text (234 KB)] **IEEE CNF**

---

4 **An analog CMOS chip implementing a CNN-based locomotion controller for quadruped walking robots**
Nakada, K.; Asai, T.; Amemiya, Y.;
Circuits and Systems, 2004. ISCAS '04. Proceedings of the 2004 International Symposium on , Volume: 3 , 23-26 May 2004

Pages:III - 1-4 Vol.3

[Abstract] [PDF Full-Text (391 KB)] IEEE CNF

---

5 **A universal CNN neuron for CMOS technology: model and functional capabilities**
Dogaru, R.; Chitu, C.; Glesner, M.;
Signals, Circuits and Systems, 2003. SCS 2003. International Symposium on , Volume: 1 , 10-11 July 2003
Pages:181 - 184 vol.1

[Abstract] [PDF Full-Text (361 KB)] IEEE CNF

---

6 **Implementation of non-linear templates using a decomposition technique by a 0.5 µm CMOS CNN universal chip**
Linan, G.; Foldesy, P.; Rodrignez-Vazquez, A.; Espejo, S.; Dominguez-Castro, R.;
Circuits and Systems, 2000. Proceedings. ISCAS 2000 Geneva. The 2000 IEEE International Symposium on , Volume: 2 , 28-31 May 2000
Pages:401 - 404 vol.2

[Abstract] [PDF Full-Text (368 KB)] IEEE CNF

---

7 **Review of CMOS implementations of the CNN universal machine-type visual microprocessors**
Roska, T.; Rodriguez-Vazquez, A.;
Circuits and Systems, 2000. Proceedings. ISCAS 2000 Geneva. The 2000 IEEE International Symposium on , Volume: 2 , 28-31 May 2000
Pages:120 - 123 vol.2

[Abstract] [PDF Full-Text (304 KB)] IEEE CNF

---

8 **Modeling nanoelectronic CNN cells: CMOS, SETs and QCAs**
Gerousis, C.; Goodnick, S.M.; Xiaohui Wang; Porod, W.; Csurgay, A.I.; Toth, G.; Lent, C.S.;
Circuits and Systems, 2000. Proceedings. ISCAS 2000 Geneva. The 2000 IEEE International Symposium on , Volume: 1 , 28-31 May 2000
Pages:274 vol.1

[Abstract] [PDF Full-Text (76 KB)] IEEE CNF

---

9 **Robust CMOS CNN implementation with respect to manufacturing inaccuracies**
Paasio, A.; Dawidziuk, A.; Halonen, K.; Porra, V.;
Cellular Neural Networks and their Applications, 1996. CNNA-96. Proceedings., 1996 Fourth IEEE International Workshop on , 24-26 June 1996
Pages:381 - 385

[Abstract] [PDF Full-Text (264 KB)] IEEE CNF

---

10 **Real-life application case studies using CMOS 0.8 µm CNN universal chip: analogic algorithm for motion detection and texture segmentation**
Foldesy, P.; Zarandy, A.; Szolgay, P.; Sziranyi, T.;
Cellular Neural Networks and their Applications, 1996. CNNA-96. Proceedings., 1996 Fourth IEEE International Workshop on , 24-26 June 1996
Pages:363 - 368

[Abstract] [PDF Full-Text (300 KB)] IEEE CNF

11 **Pulse stream current mode CMOS CNN chip**
Paasio, A.; Dawidziuk, A.; Porra, V.;
Cellular Neural Networks and their Applications, 1996. CNNA-96. Proceedings., 1996 Fourth IEEE International Workshop on , 24-26 June 1996
Pages:457 - 460

[Abstract] [PDF Full-Text (176 KB)] **IEEE CNF**

12 **CMOS implementation of an extended CNN cell to deal with complex dynamics**
Giustolisi, G.; Rizzo, A.;
Circuits and Systems, 2003. ISCAS '03. Proceedings of the 2003 International Symposium on , Volume: 5 , 25-28 May 2003
Pages:V-761 - V-764 vol.5

[Abstract] [PDF Full-Text (307 KB)] **IEEE CNF**

13 **Accurate CMOS implementation of PWL CNN neuron activations**
Forti, M.; Pancioni, L.; Rocchi, S.; Vignoli, V.;
Circuits and Systems, 2002. ISCAS 2002. IEEE International Symposium on , Volume: 1 , 26-29 May 2002
Pages:I-221 - I-224 vol.1

[Abstract] [PDF Full-Text (372 KB)] **IEEE CNF**

14 **CMOS realization of a 2-layer CNN universal machine chip**
Carmona, R.; Jimenez-Garrido, F.; Dominguez-Castro, R.; Espejo, S.; Rodriguez-Vazquez, A.;
Cellular Neural Networks and Their Applications, 2002. (CNNA 2002). Proceedings of the 2002 7th IEEE International Workshop on , 22-24 July 2002
Pages:444 - 51,xviii-x

[Abstract] [PDF Full-Text (357 KB)] **IEEE CNF**

15 **An efficient and compact integration of CMOS image sensors and cellular neural network (CNN) for intelligent processing**
Chung Yu Wu; Wen Cheng Yen;
Multisensor Fusion and Integration for Intelligent Systems, 1999. MFI '99. Proceedings. 1999 IEEE/SICE/RSJ International Conference on , 15-18 Aug. 1999
Pages:232 - 236

[Abstract] [PDF Full-Text (224 KB)] **IEEE CNF**

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---

16 **The design of CMOS cellular neural network (CNN) using the neuron-bipolar junction transistor (vBJT)**
Chiou-Ling Yeh; Chung-Yu Wu;
Neural Networks, 1999. IJCNN '99. International Joint Conference on , Volume: 4 , 10-16 July 1999
Pages:2337 - 2342 vol.4

[Abstract] [PDF Full-Text (432 KB)] **IEEE CNF**

---

17 **A novel compact architecture for a programmable full-range CNN in 0.5 µm CMOS technology**
Hegt, J.A.; Leenaerts, D.M.W.; Wilmans, R.T.;
Cellular Neural Networks and Their Applications Proceedings, 1998 Fifth IEEE International Workshop on , 14-17 April 1998
Pages:288 - 293

[Abstract] [PDF Full-Text (348 KB)] **IEEE CNF**

---

18 **A 0.5 µm CMOS CNN analog random access memory chip for massive image processing**
Carmona, R.; Espejo, S.; Dominguez-Castro, R.; Rodriguez-Vazque, A.; Roska, T.; Kozek, T.; Chua, L.O.;
Cellular Neural Networks and Their Applications Proceedings, 1998 Fifth IEEE International Workshop on , 14-17 April 1998
Pages:271 - 276

[Abstract] [PDF Full-Text (724 KB)] **IEEE CNF**

---

19 **Challenges in mixed-signal IC design of CNN chips in submicron CMOS**
Rodriguez-Vazquez, A.; Dominguez-Castro, R.; Espejo, S.;
Cellular Neural Networks and Their Applications Proceedings, 1998 Fifth IEEE International Workshop on , 14-17 April 1998
Pages:13

[Abstract] [PDF Full-Text (100 KB)] **IEEE CNF**

20 **Electro-optical measurement system for the DC characterization of visible detectors for CMOS compatible CNN vision chips**
Roca, E.; Frutos, F.; Espejo, S.; Dominguez-Castro, R.; Rodriguez-Vazquez, A.;
Cellular Neural Networks and Their Applications Proceedings, 1998 Fifth IEEE International Workshop on , 14-17 April 1998
Pages:282 - 287

[Abstract] [PDF Full-Text (648 KB)] **IEEE CNF**

21 **Realization of a CNN universal chip in CMOS technology**
Espejo, S.; Dominguez-Castro, R.; Rodriguez-Vazquez, A.;
Circuits and Systems, 1995. ISCAS '95., 1995 IEEE International Symposium on , Volume: 1 , 28 April-3 May 1995
Pages:657 - 659 vol.1

[Abstract] [PDF Full-Text (312 KB)] **IEEE CNF**

22 **A CNN universal chip in CMOS technology**
Dominguez-Castro, R.; Espejo, S.; Rodriguez-Vazquez, A.; Carmona, R.;
Cellular Neural Networks and their Applications, 1994. CNNA-94., Proceedings of the Third IEEE International Workshop on , 18-21 Dec. 1994
Pages:91 - 96

[Abstract] [PDF Full-Text (328 KB)] **IEEE CNF**

23 **Accurate design of analog CNN in CMOS digital technologies**
Rodriquez-Vazques, A.; Dominguez-Castro, R.; Huertas, J.L.;
Cellular Neural Networks and their Applications, 1990. CNNA-90 Proceedings., 1990 IEEE International Workshop on , 16-19 Dec. 1990
Pages:273 - 280

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